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L7	2	"5704029".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/12 16:21
L8	2	"5842195".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/12 16:21

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L10	2	"6070143".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/12 16:21
L11	2	"6189029".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/12 16:21
L12	2	"6151581".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/12 16:21
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L14	383	attributes and value and input and user and html and xml and form and 715/513	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/12 16:21
L15	371	attributes and value and input and user and html and xml and form and 715/513 and field	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/12 16:21
L16	236	715/505	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/12 16:21

L17	116	715/506	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/12 16:21
L18	208	715/507	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/12 16:21
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1 Extending Java for high-level Web service construction
Aske Simon Christensen, Anders Møller, Michael I. Schwartzbach
November 2003 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volu
Publisher: ACM Press
Full text available: pdf(947.02 KB) Additional Information: full citation, abstract, references, cit

We incorporate innovations from the <bigwig> project into the Java language to provide high-le
The resulting language, JWIG, contains an advanced session model and a flexible mechanism for
particular XHTML. To support program development we provide a suite of program analyses that
that no runtime errors can occur while building documents or receiving form input, and ...

Keywords: Interactive Web services, XML, data-flow analysis

2 Toward an engineering discipline for grammarware
Paul Klint, Ralf Lämmel, Chris Verhoef
July 2005 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volu
Publisher: ACM Press
Full text available: pdf(710.42 KB) Additional Information: full citation, abstract, references, in

Grammarware comprises grammars and all grammar-dependent software. The term *grammar* is
grammar formalisms and grammar notations including context-free grammars, class dictionaries
tree and graph grammars. The term *grammar-dependent software* refers to all software that inv
manner. Archetypal examples of grammar-dependent software are parsers, program converters

Keywords: Grammarware, automated software engineering, best practices, generic language te
grammars, language processing, metamodeling, model-driven development, parsers, software e

3 Haskell and XML: generic combinators or type-based translation?
Malcolm Wallace, Colin Runciman
September 1999 **ACM SIGPLAN Notices , Proceedings of the fourth ACM SIGPLAN internatio
programming ICFP '99**, Volume 34 Issue 9
Publisher: ACM Press
Full text available: pdf(1.48 MB) Additional Information: full citation, abstract, references, cit

We present two complementary approaches to writing XML document-processing applications in
the generic tree structure of XML documents is used as the basis for the design of a library of co
generation, and transformation of XML trees.The second approach is to use a type-translation fr
definitions (DTDs) as declarations of algebraic data types, and a derivation of the cor ...

4 Posters: Consistency checking of UML model diagrams using the XML semantics approacl
Yasser Kotb, Takuya Katayama
May 2005 **Special interest tracks and posters of the 14th international conference on**
Publisher: ACM Press
Full text available: pdf(268.05 KB) Additional Information: full citation, abstract, references, in

A software design is often modeled as a collection of unified Modeling Language (UML) diagrams system that are covered by many different UML diagrams. This leads for big risk that the overall inconsistent and incompleteness. This inherits the necessary to check the consistency between tl the software system gets evolution, those diagrams get modified that leads again to possi ...

Keywords: UML, XMI, XML, attribute grammars, model checking

5 Anatomy of a native XML base management system
T. Fiebig, S. Helmer, C.-C. Kanne, G. Moerkotte, J. Neumann, R. Schiele, T. Westmann
December 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, \
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(300.97 KB) Additional Information: full citation, abstract, citings, index t

Several alternatives to manage large XML document collections exist, ranging from file systems specifically tailored XML base management systems. In this paper we give a tour of Natix, a data scratch for storing and processing XML data. Contrary to the common belief that management of traditional databases like relational systems, we illustrate how almost every component in a ...

Keywords: Database, XML

6 Transformations and Experiences: Towards static type checking for XSLT
Akihiko Tozawa
November 2001 **Proceedings of the 2001 ACM Symposium on Document engineering**
Publisher: ACM Press
Full text available: pdf(175.21 KB) Additional Information: full citation, abstract, references, cit

We are concerned about the *static type checking* problem for XSLT. In the context of XSLT and c schemas, and *static type checking* is to verify that a program always converts valid source docur achieve static type checking for XSLT, we introduce a subset of XSLT, and an efficient algorithm Although our XSLT subset lacks XPath, it includes recursiv ...

7 Concrete syntax for objects: domain-specific language embedding and assimilation withoul
Martin Bravenboer, Eelco Visser
October 2004 **ACM SIGPLAN Notices , Proceedings of the 19th annual ACM SIGPLAN conf systems, languages, and applications OOPSLA '04**, Volume 39 Issue 10
Publisher: ACM Press
Full text available: pdf(379.91 KB) Additional Information: full citation, abstract, references, in

Application programmer's interfaces give access to domain knowledge encapsulated in class libra notation for expressing domain composition. Since object-oriented languages are designed for ex constructs are often sufficient for expressing domain abstractions at the semantic level. Howevei at the syntactic level. In this paper we describe MetaBorg, a method for providing <i> ...

Keywords: MetaBorg, SDF, concrete object syntax, domain-specific languages, embedded langu rewriting, stratego, syntax extension

8 Change management: An infrastructure for development of object-oriented, multi-level con

Tien N. Nguyen, Ethan V. Munson, John T. Boyland, Cheng Thao
May 2005 **Proceedings of the 27th international conference on Software engineering**
Publisher: ACM Press
Full text available: pdf(418.74 KB) Additional Information: full citation, abstract, references, inc

In an integrated development environment, the ability to manage the evolution of a software sys compositions, and their interrelations is crucial to successful software development. This paper p infrastructure, *Molhado*, upon which to build *object-oriented* software configuration management integrated development environment. Key contributions of this paper include a *product versioni* ...

Keywords: *software configuration management, version control*

9 XML parsing and stylesheets: An adaptive, fast, and safe XML parser based on byte seque

Toshiro Takase, Hisashi MIYASHITA, Toyotaro Suzumura, Michiaki Tatsubori
May 2005 **Proceedings of the 14th international conference on World Wide Web**
Publisher: ACM Press
Full text available: pdf(274.39 KB) Additional Information: full citation, abstract, references, inc

XML (Extensible Markup Language) processing can incur significant runtime overhead in XML-bas service application servers. This paper proposes a novel mechanism for efficiently processing sim document as a byte sequence, the XML parser proposed in this paper normally avoids syntactic a with previously processed ones, reusing those results. Our parser is adaptive since it partially p ...

Keywords: SAX, XML parsers, automata

10 An XML model for small business e-commerce

Jim Sims, Rahul Tikekar
November 2000 **Journal of Computing Sciences in Colleges**, Volume 16 Issue 2
Publisher: Consortium for Computing Sciences in Colleges , Consortium for Computing Sciences in Colleges
Full text available: pdf(74.30 KB) Additional Information: full citation, abstract, references, inc

This paper proposes a model based on the eXtensible Markup Language (XML) for small business grew from the authors' and other Southern Oregon University students' experiences working witl small businesses wishing to jump onto the e-commerce bandwagon. The model stems from an o needs of companies who come to small colleges for advice and talent in e-commerce ventures a

11 CDuce: an XML-centric general-purpose language

Véronique Benzaken, Giuseppe Castagna, Alain Frisch
August 2003 **ACM SIGPLAN Notices , Proceedings of the eighth ACM SIGPLAN internatio programming ICFP '03**, Volume 38 Issue 9
Publisher: ACM Press
Full text available: pdf(242.16 KB) Additional Information: full citation, abstract, references, cit

We present the functional language CDuce, discuss some design issues, and show its adequacy f features of CDuce are a powerful pattern matching, first class functions, overloaded functions, a pairs, records, intersections, unions, differences), precise type inference for patterns and error lc types as sets of values. We also outline some important implementation issue ...

Keywords: *CDuce, XML, XML-processing, type systems*

12 Understanding users II: A qualitative assessment of the efficacy of UML diagrams as a forr program understanding

Scott Tilley, Shihong Huang
October 2003 **Proceedings of the 21st annual international conference on Documentatior**
Publisher: ACM Press
Full text available: pdf(274.99 KB) Additional Information: full citation, abstract, references, cit

Graphical documentation is often characterized as an effective aid in program understanding. Ho types of graphical documentation are most suitable for which types of program understanding ta The Unified Modeling Language (UML) is the de facto standard for modeling modern software ap experiment to assess the qualitative efficacy of UML diagrams in aiding program understanding.

Keywords: Unified Modeling Language (UML), assessment, graphical documentation, program u

13 Data integration and sharing I: Capturing both types and constraints in data integration
Michael Benedikt, Chee-Yong Chan, Wenfei Fan, Juliana Freire, Rajeev Rastogi
June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Manage**
Publisher: ACM Press
Full text available: pdf(690.62 KB) Additional Information: full citation, abstract, references, cit

We propose a framework for integrating data from multiple relational sources into an XML docum satisfies predefined XML constraints. The framework is based on a specification language, AIG, tl types with semantic attributes (inherited and synthesized, inspired by the corresponding notions these attributes via parameterized SQL queries over multiple data sources, and (3) inc ...

14 From UML to LQN by XML algebra-based model transformations
Gordon P. Gu, Dorina C. Petriu
July 2005 **Proceedings of the 5th international workshop on Software and performan**
Publisher: ACM Press
Full text available: pdf(231.43 KB) Additional Information: full citation, abstract, references, inc

The change of focus from code to models promoted by OMG's Model Driven Development raises characteristics of UML models. such as performance, reliability, scalability, security, etc. Many m have been developed over the years for the analysis of different non-functional characteristics. T methods for UML models, but to bridge the gap between UML-based software developmen ...

Keywords: LQN, UML, XMI, XML, automatic model building, model transformations, performanc

15 Making use of document standards and models: An environment for maintaining computati
Dongxi Liu, Zhenjiang Hu, Masato Takeichi
November 2005 **Proceedings of the 2005 ACM symposium on Document engineering DocEn**
Publisher: ACM Press
Full text available: pdf(236.83 KB) Additional Information: full citation, abstract, references, inc

In the domain of XML authoring, there have been many tools to help users to edit XML documen complex documents by using such technologies as syntax-directed or presentation-oriented editi contains data with some computation dependency among them, these tools cannot free users frc dependency relationship. By computation dependency, we mean that some data are gotten by cc

Keywords: XML, computation dependency, functional programming, lazy evaluation, programm

16 Database principles: The XML typechecking problem
Dan Suciu
March 2002 **ACM SIGMOD Record**, Volume 31 Issue 1
Publisher: ACM Press

Full text available: pdf(504.57 KB) Additional Information: full citation, abstract, references, cit

When an XML document conforms to a given type (e.g. a DTD or an XML Schema type) it is calle
document is valid is called the validation problem, and is typically performed by a parser (hence,
performed right after parsing, by the same program module. In practice however XML document
program: checking whether all XML documents generated by the program are val ...

17 Generating spreadsheet-like tools from strong attribute grammars
João Saraiva, Doaitse Swierstra
September 2003 **Proceedings of the second international conference on Generative progran '03**
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(161.50 KB) Additional Information: full citation, abstract, references, in

This paper presents techniques for the formal specification and efficient incremental implementat
spreadsheets are specified by strong attribute grammars. In this style of attribute grammar proc
is expressed within the attribute grammar formalism. Well-known attribute grammar techniques
For example, ordered scheduling algorithms can be used to statically guarantee termination of tl

18 Document querying and transformation: Lazy XSL transformations
Steffen Schott, Markus L. Noga
November 2003 **Proceedings of the 2003 ACM symposium on Document engineering**
Publisher: ACM Press
Full text available: pdf(335.83 KB) Additional Information: full citation, abstract, references, in

We introduce a lazy XSLT interpreter that provides random access to the transformation result. T
transformation sequences. Nodes of the result tree are computed only upon initial access. As the
output coverage propagates backwards through the pipeline.In comparative measurements with
approach is on par for complete coverage and excels as coverage becomes sparser. In contrast t

19 Integrating software productivity tools into Eclipse
Will Robinson, Ben D'Angelo
October 2003 **Proceedings of the 2003 OOPSLA workshop on eclipse technology eXchang**
Publisher: ACM Press
Full text available: pdf(333.64 KB) Additional Information: full citation, abstract, references

This paper presents a framework designed to ease the process of building GUIs for software proc
provides a general system with which external tools may display graphs and trees within Eclipse
In addition, our framework can retrieve information from Eclipse, passing it back to the user's ex
Combining these pieces of functionality gives users an intuitive and powerful interface ...

20 Session 6: Customizable description and dynamic discovery for web services
Wooyoung Kim, Alan H. Karp
May 2004 **Proceedings of the 5th ACM conference on Electronic commerce**
Publisher: ACM Press
Full text available: pdf(188.80 KB) Additional Information: full citation, abstract, references, in

We present a framework for developing ontologies suitable for a dynamic environment, such as t
commercial system for resource discovery. This framework recognizes the importance of standar
doesn't disrupt those adhering to the standards. The framework is based on the notion of discov
security. The specific ontology we use in thesystem includes some salient features, ...

Keywords: ontologies, service description and discovery, web services

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